DESIGN AND IMPLEMENTATION DEVICE FOR REAL-TIME CONTROLLERS

Abstract of Disclosure

A state processor (10) for generating a state table (18) and a runtime code (19) for use in implementing of one or more pre-designed state models is provided. The state processor (10) includes a state model information provider (24), a state information separator (26), and a compiler (22). The state model information provider (24) extracts state model information in response to the one or more state models. The state information separator (26) generates a state code and the state table (18) in response to the one or more state models. The compiler (22) compiles the state code and generates the runtime code (19). A method for implementing the pre-designed state models is also provided including implementing the runtime code (19) in conjunction with the state table (18).